

Figure 1



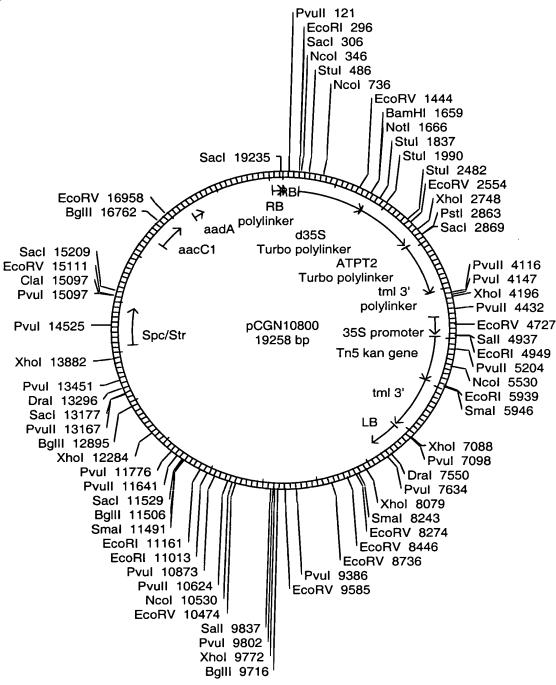


Figure 2



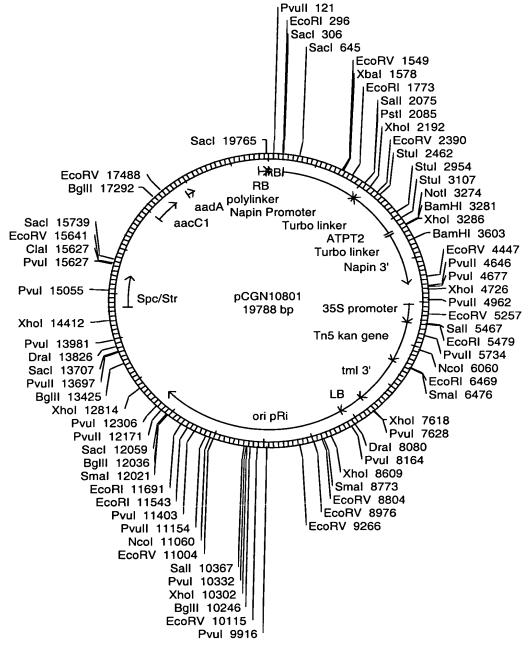


Figure 3

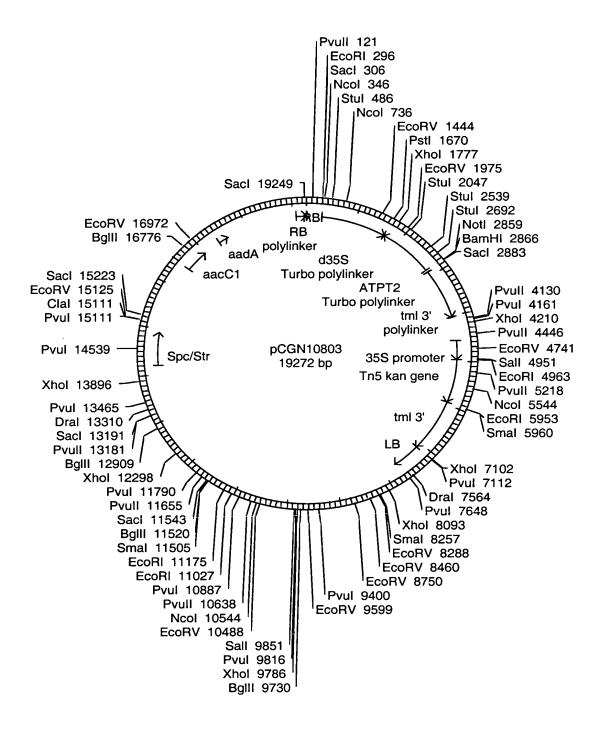


Figure 4



Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis
Inventor: Subramaniam et al.
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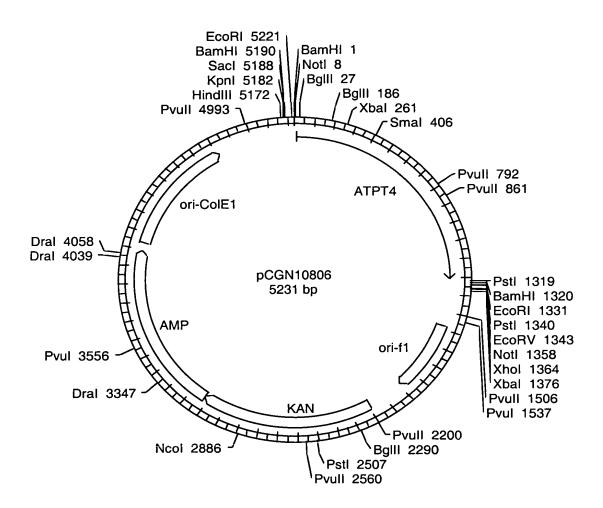


Figure 5

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis

Inventor: Subramaniam et al.

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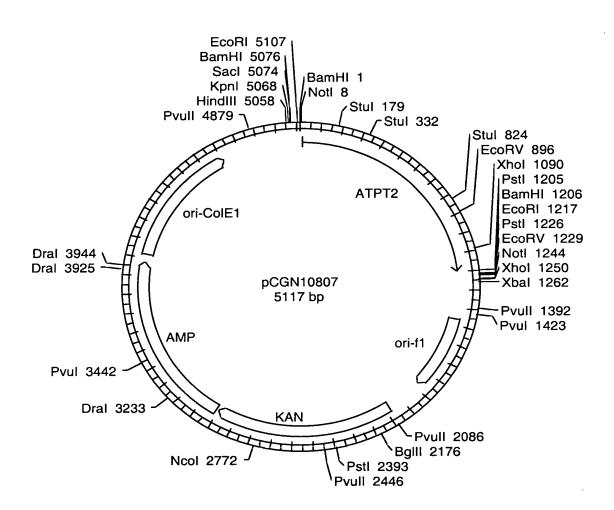


Figure 6



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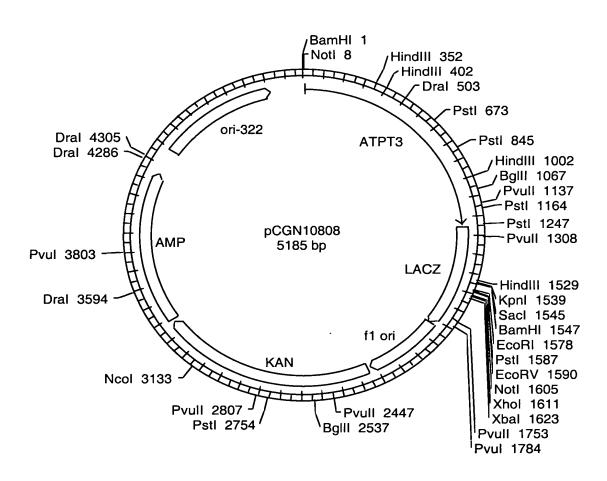


Figure 7

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al. Atty Docket: MONS:038US Sheet 8 of 40 Replacement Sheet Pvull 121 EcoRI 296 Sacl 306 Ncol 346 Stul 486 Ncol 736 **EcoRV 1444** BamHI 1659 Notl 1666 HindIII 2010 HindIII 2060 Dral 2161 Pstl 2331 Pstl 2503 Sacl 19277 HindIII 2660 BgIII 2725 Pvull 2795 EcoRV 17000 Pstl 2822 RB **BgIII 16804** R aadA polylinker Pstl 2905 Sacl 2911 d35S aacC1 Turbo polylinker Sacl 15251 ATPT3 EcoRV 15153 Pvull 4158 Turbo polylinker Clal 15139 Pvul 4189 tml 3' Pvul 15139 Xhol 4238 polylinker Pvull 4474 Pvul 14567 pCGN10809 EcoRV 4769 Spc/Str 35S promoter 19300 bp Sall 4979 Tn5 kan gene EcoRI 4991 Xhol 13924 Pvull 5246 [\]Ncol 5572 Pvul 13493 tml 3' EcoRI 5981 Dral 13338 Smal 5988 Sacl 13219 LB Pvull 13209 BgIII 12937 Xhol 7130 Xhol 12326 Pvul 7140 Pvul 11818 Drai 7592 Pvuli 11683 Pvul 7676 Sacl 11571 Xhol 8121 **Bglll 11548** Smal 8285 Smal 11533 EcoRV 8316 EcoRI 11203 EcoRV 8488 EcoRI 11055 EcoRV 8778 Pvul 10915 ¹Pvul 9428 Pvull 10666 ^IEcoRV 9627 Ncol 10572 EcoRV 10516

Figure 8

Sall 9879 | Pvul 9844 | Xhol 9814 | Bglll 9758 AUG 3 0 2004 25

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Pvull 121 EcoRI 296 Sacl 306 Sacl 645 EcoRV 1549 Xbal 1578 EcoRI 1773 Sall 2075 Pstl 2085 Pstl 2168 Pvull 2191 **Bglll** 2257 HindIII 2322 Pstl 2487 Sacl 19807 Pstl 2659 MINITED THE PARTY OF THE PARTY Dral 2825 HindIII 2922 HARBI EcoRV 17530 aadA HindIII 2972 RB **BgIII 17334** Notl 3316 polylinker **BamHI 3323** Napin Promoter Saci 15781 aacC1 Xhol 3328 Turbo linker EcoRV 15683 BamHI 3645 ATPT3 Clal 15669 EcoRV 4489 Turbo linker Pvul 15669 Pvull 4688 Napin 3' Pvul 4719 Pvul 15097 Xhol 4768 pCGN10810 Spc/Str Pvull 5004 19830 bp 35S promoter EcoRV 5299 Xhol 14454 Sall 5509 Tn5 kan gene Pvul 14023 EcoRI 5521 Dral 13868 Pvull 5776 Sacl 13749 tml 3' Ncol 6102 Pvull 13739 EcoRI 6511 **BgIII 13467** LB Smal 6518 Xhol 12856 ori pRi Xhoi 7660 Pvul 12348 Pvull 12213 Pvul 7670 Dral 8122 Sacl 12101 ¹Pvul 8206 **BgIII 12078** ¹Xhol 8651 Smal 12063 Smal 8815 EcoRI 11733 EcoRV 8846 EcoRI 11585 EcoRV 9018 Pvul 11445 EcoRV 9308 Pvull 11196 Ncol 11102 EcoRV 11046 Sall 10409 Pvul 10374 Xhol 10344 Bglll 10288 EcoRV 10157

Figure 9

Pvul 9958

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al. Atty Docket: MONS:038US Sheet 10 of 40 Replacement Sheet Pvull 121 EcoRI 296 Sacl 306 Sacl 645 EcoRV 1549 Xbal 1578 **EcoRI 1773** BamHI 2080 Notl 2087 HindIII 2431 HindIII 2481 Dral 2582 Sacl 19807 Pstl 2752 The state of the s Pstl 2924 HindIII 3081 HARBH EcoRV 17530 Bglll 3146 RB BgIII 17334 Pvull 3216 polylinker Pstl 3243 Napin Promoter -Pstl 3326 Sacl 15781 aacC1 Turbo linker EcoRV 15683 BamHI 3645 ATPT3 Clal 15669 EcoRV 4489 Turbo linker Pvul 15669 Pvull 4688 Napin 3' Pvul 4719 Pvul 15097 Xhol 4768 polylinker pCGN10811 Spc/Str Pvull 5004 35S promoter 19830 bp EcoRV 5299 Xhol 14454 Sall 5509 Tn5 kan gene EcoRI 5521 Pvul 14023 Pvull 5776 Dral 13868 Sacl 13749 Ncol 6102 tml 3' Pvull 13739 EcoRI 6511 LB **BgIII 13467** Smal 6518 Xhol 12856 Xhol 7660 Pvul 12348 ¹Pvul 7670 Pvull 12213 Dral 8122 Sacl 12101 ¹Pvul 8206 **BgIII 12078** Xhol 8651 Smal 12063 Smal 8815 EcoRI 11733 EcoRI 11585 EcoRV 8846 EcoRV 9018 Pvul 11445 EcoRV 9308 Pvull 11196 Ncol 11102 EcoRV 11046 Sall 10409 Pvul 10374 Xhol 10344 **BgIII 10288** EcoRV 10157 Pvul 9958

Figure 10

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis
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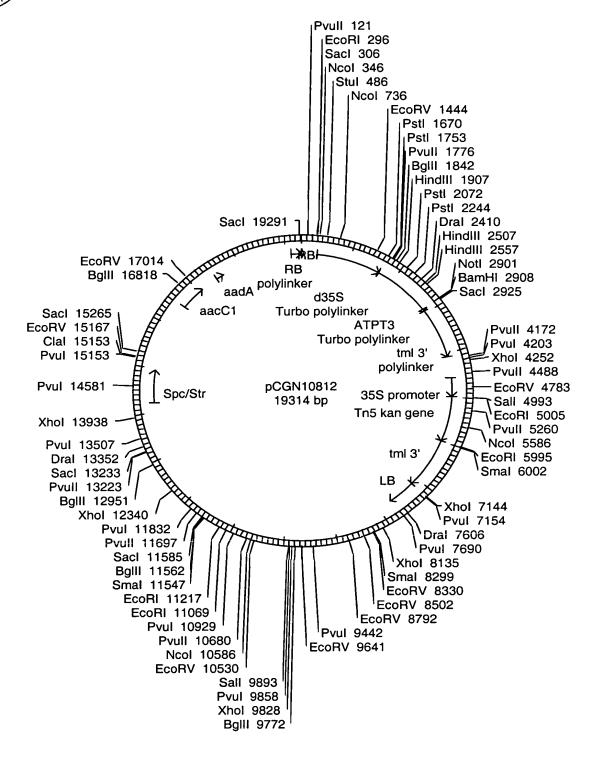


Figure 11



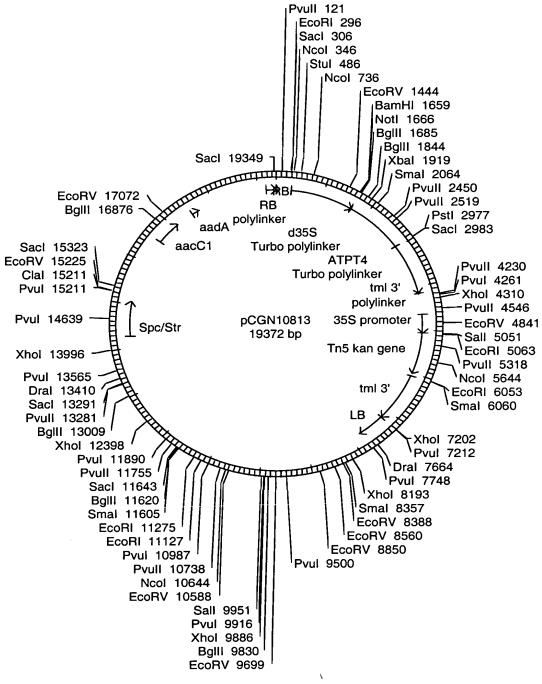


Figure 12



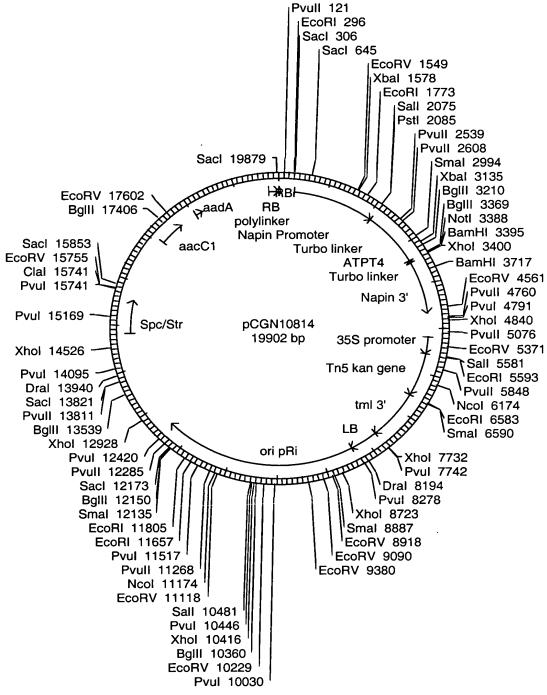


Figure 13



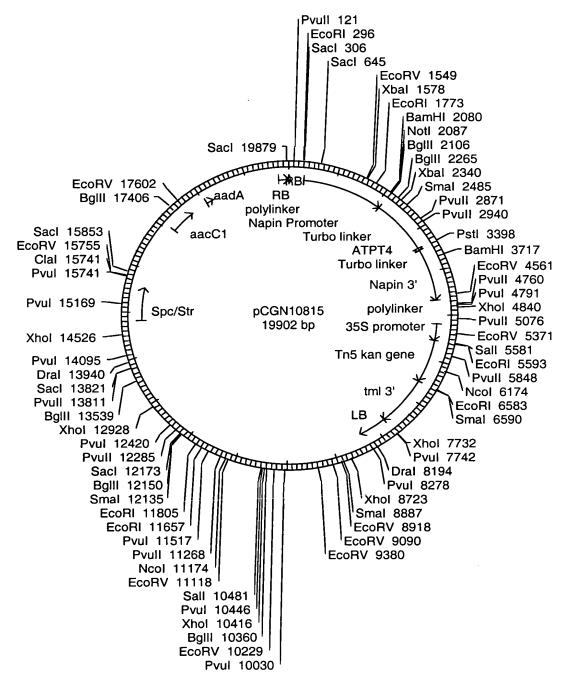


Figure 14

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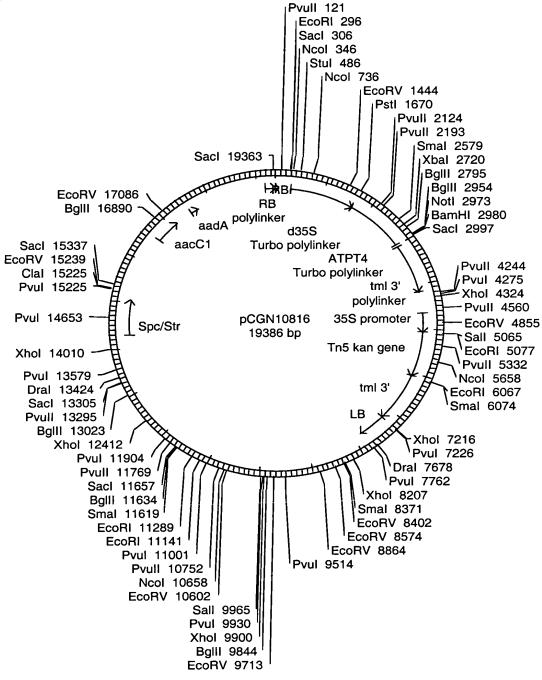


Figure 15

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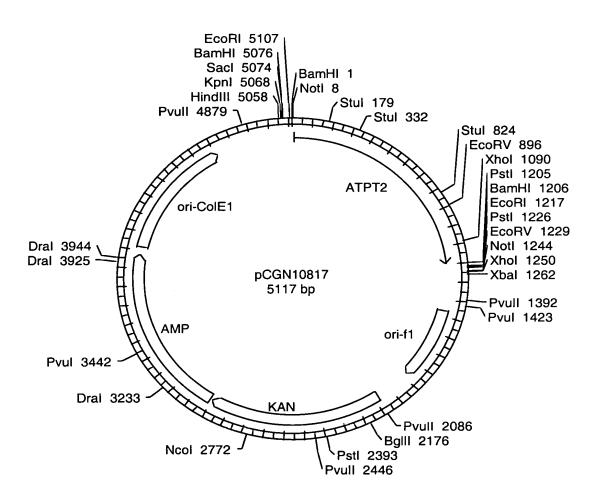


Figure 16

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Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis
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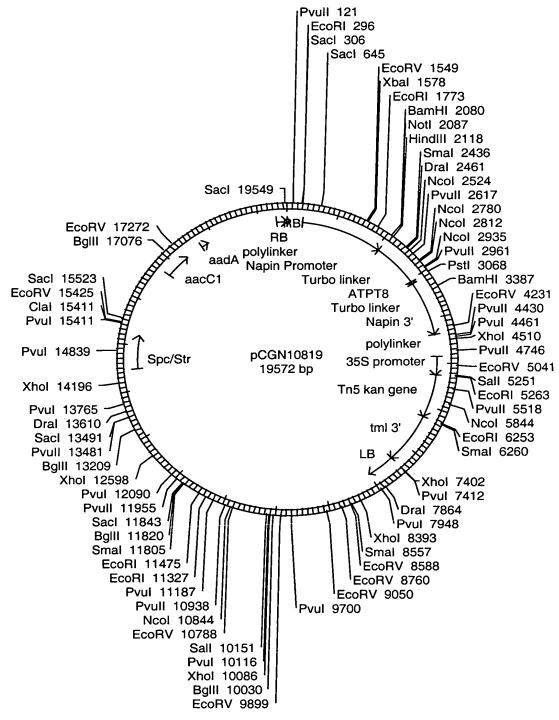


Figure 17



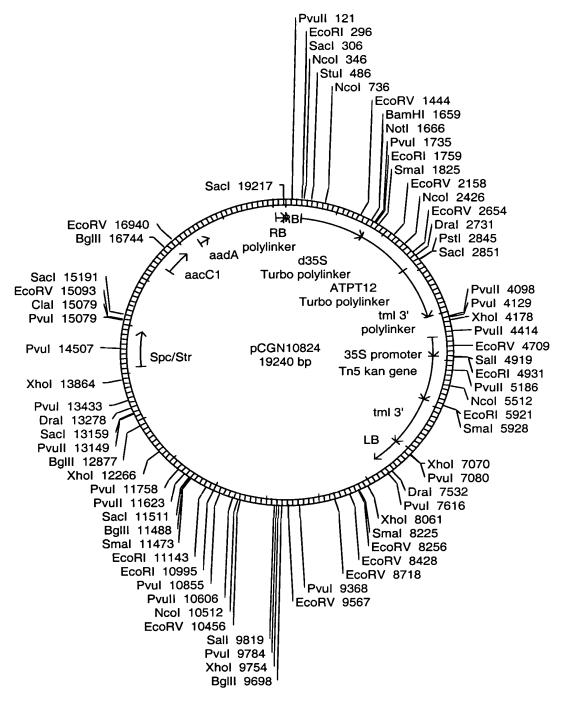


Figure 18



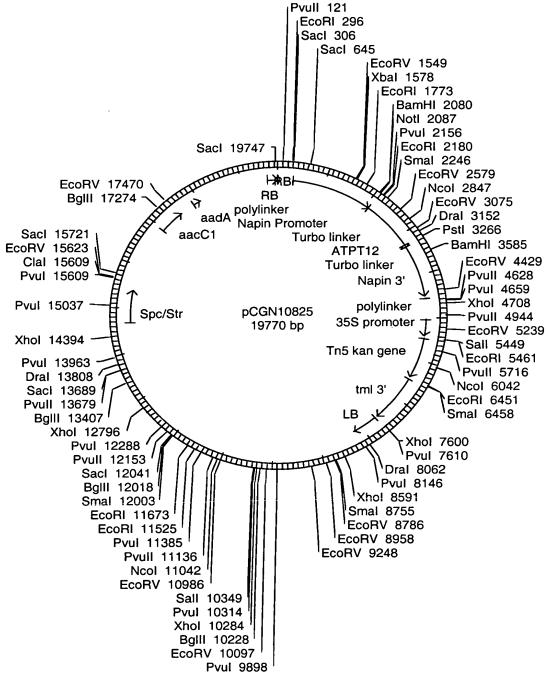


Figure 19

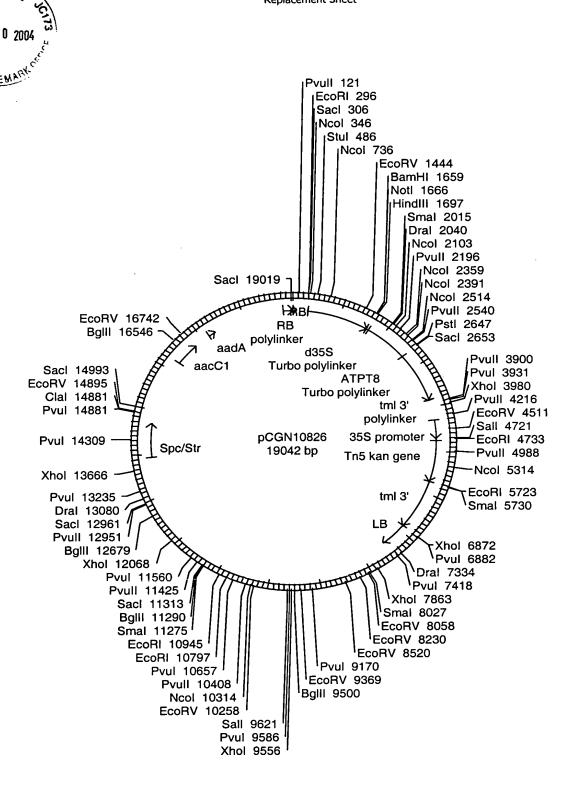


Figure 20



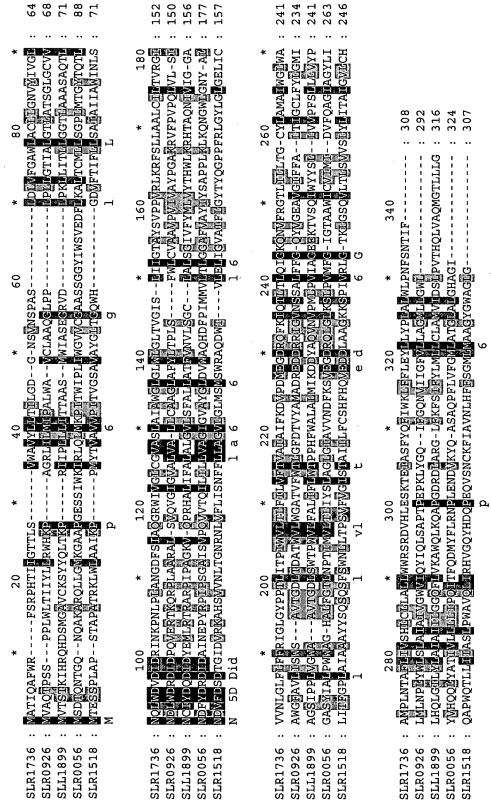


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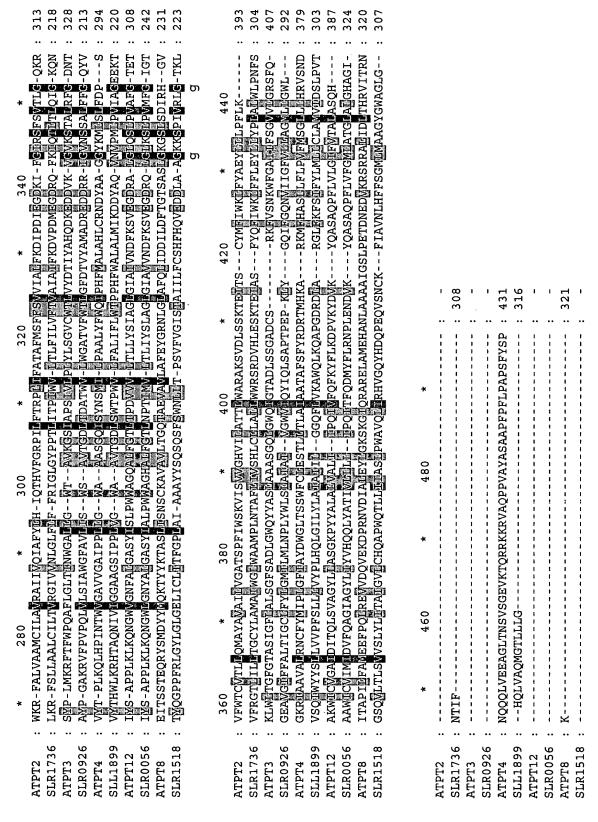
Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al. Atty Docket: MONS:038US Sheet 22 of 40

Replacement Sheet

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Figure 22A

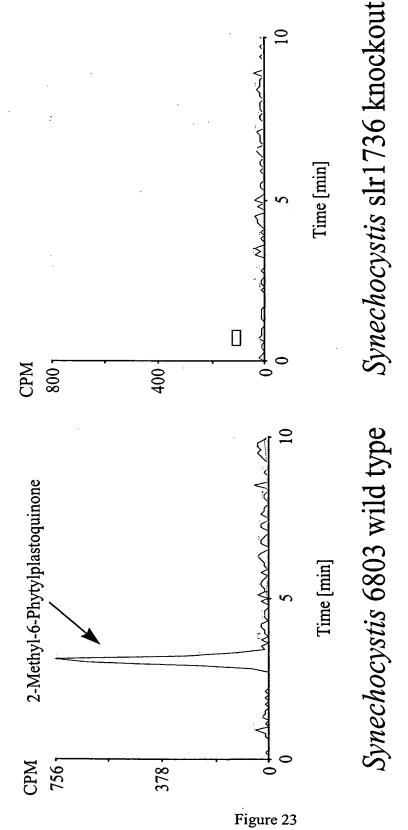




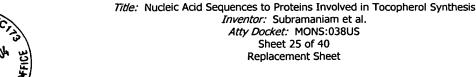


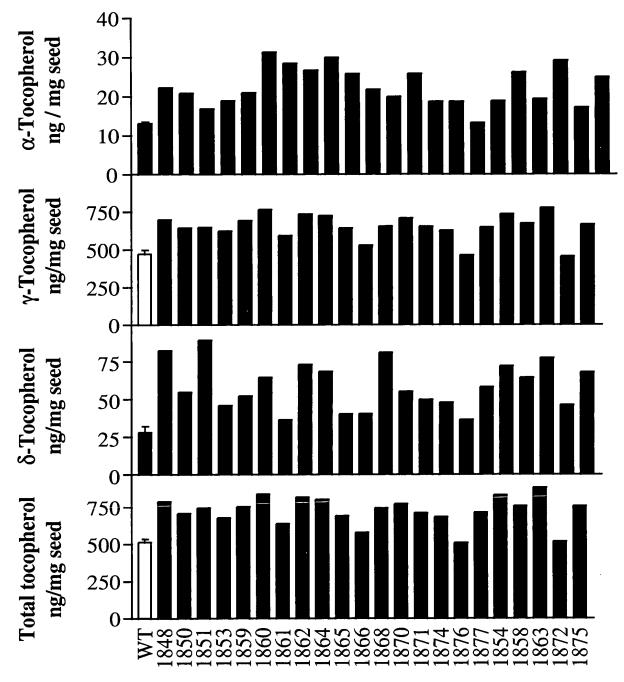
Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al.

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Figure 24

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis
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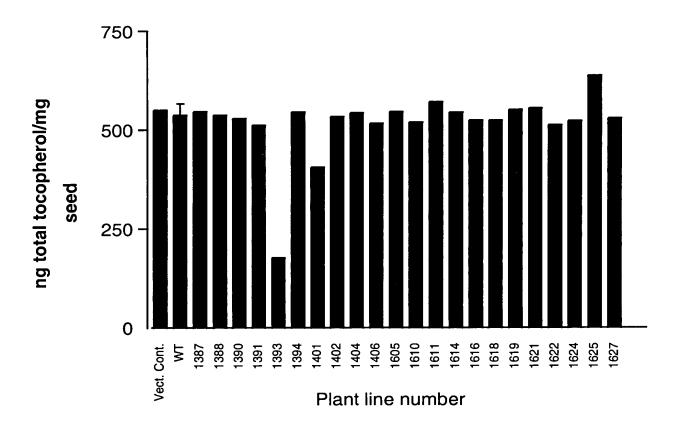
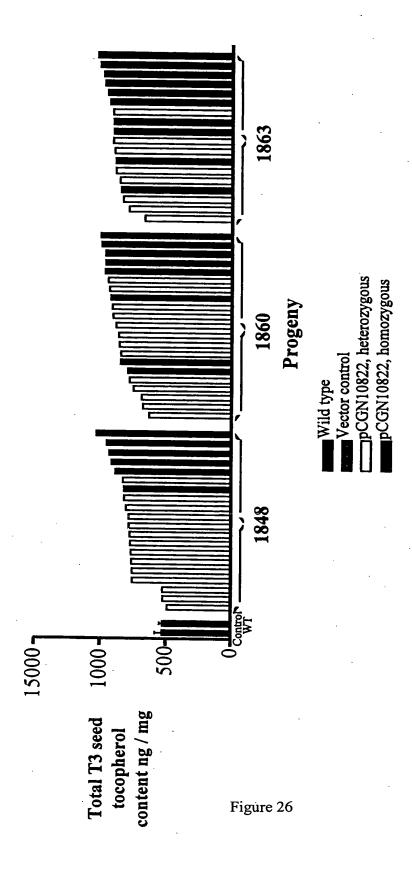


Figure 25







Inte: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis
Inventor: Subramaniam et al.
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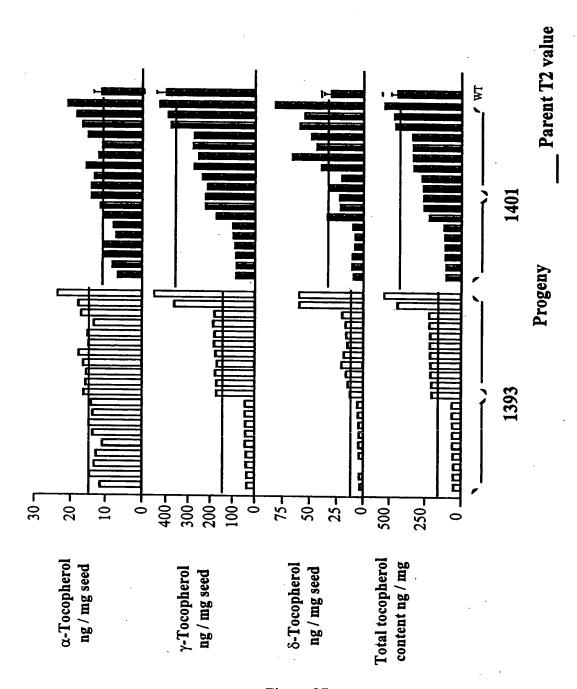


Figure 27



Total tocopherol in Napin ATPT2 Canola Seed

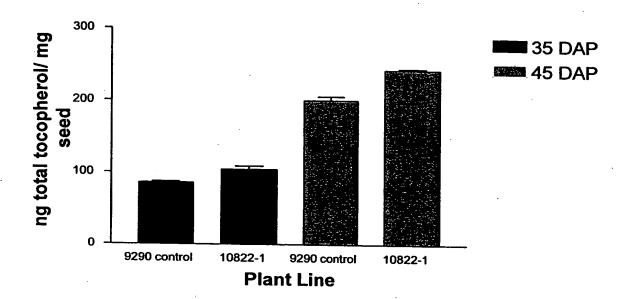


Figure 28



nventor: Subramaniam et al. Atty Docket: MONS:038US Sheet 30 of 40 Replacement Sheet

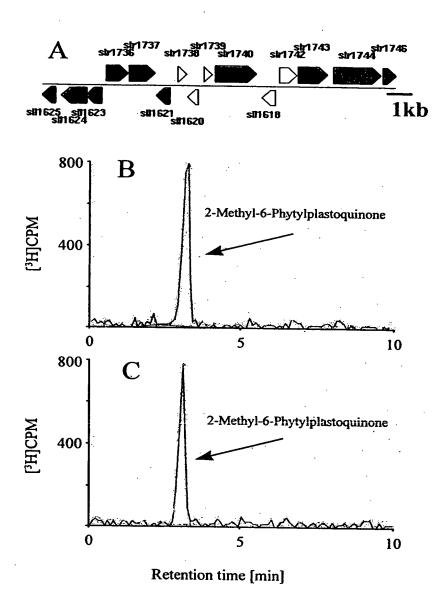
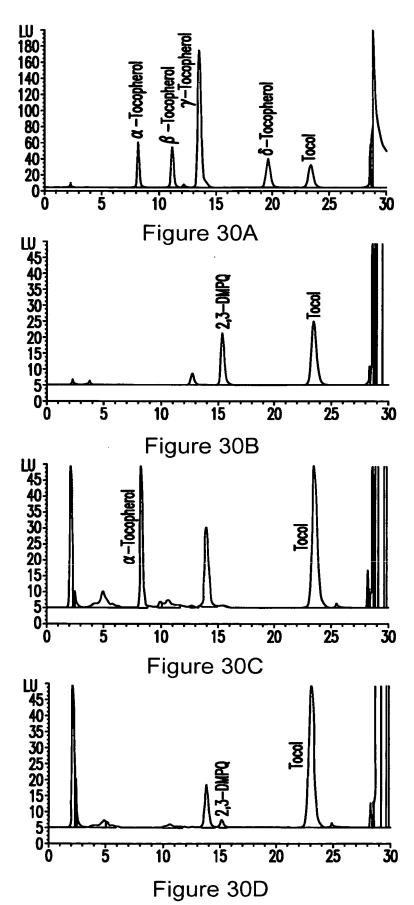


Figure 29



Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al.

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Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis

Inventor: Subramaniam et al.

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here		, Synecho seq aligns from
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	1	
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Query-	: : : : : : : : : : : : : : : : : : :
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Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis Inventor: Subramaniam et al. Atty Docket: MONS:038US Sheet 34 of 40 Replacement Sheet

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Figure 31D



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Query-	9196 ACTATTATGTATGTATGATTTTAGTTCGTTCGGTCCTTGTGGTAAATGATACGGGCCAGT
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GSDB:S:495-	67 actattatgtatgtatgattttagttcgttcggtccttgtggtaaatgatacgggccagt
Query-	0136 (771)
Query-	9136 GTAAAGTCTAGTTCAATAAAAGCCTTGAGTCGCATAATTTCAATTTCAAATTGCATC
GSDB:S:495-	7 gtaaagt .
GSDB:S:495-	Exon 9450 9130 Confidence: 98 100
	Continuence. 30 100
ATCEA4C37145_	1 3063693/emb CAA18584.1 4.0e-43 (AL022537) putative protein

ATCEA4C37145_1 3063693/emb|CAA18584.1| 4.0e-43 (AL022537) putative protein [Arabidopsis thaliana]

PIR:T04448 sPIR-T04448 shypothetical protein F4D11.30 - Arabidopsis thaliana; g3063693|emb[CAA18584.1 (AL022537) putative protein [Arabidopsis thaliana]_F4D11.30

GSDB:S:4955486|AI995392|AI995392|701673779 A. thaliana, Columbia Col-0, inflorescence-1 Arabidopsis thaliana cDNA clone 701673779, mRNA sequence.

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis

Inventor: Subramaniam et al.

Atty Docket: MONS:038US

Sheet 37 of 40 Replacement Sheet



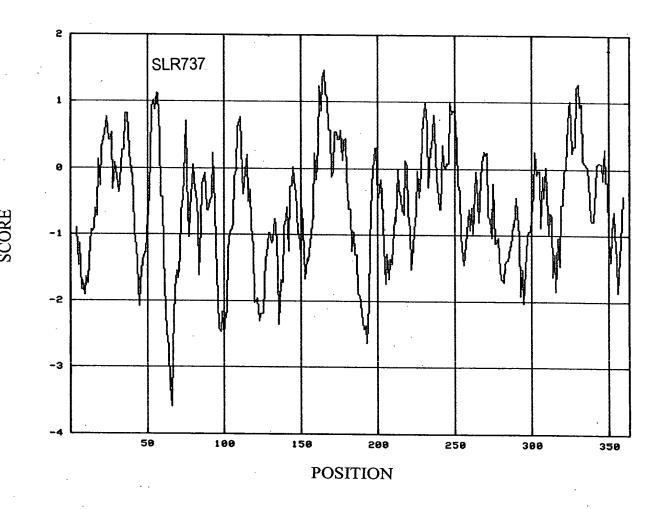
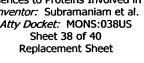


Figure 32





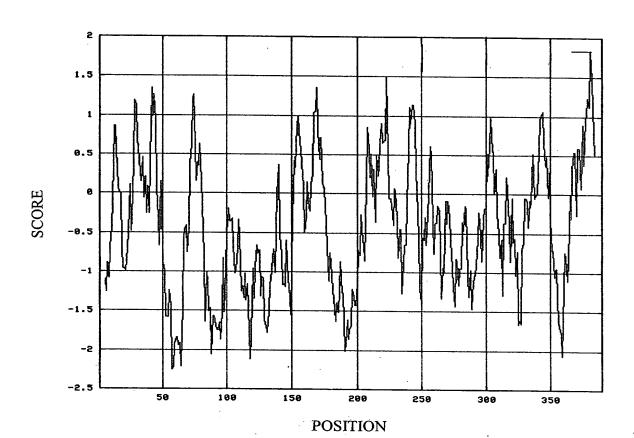


Figure 33

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis

Inventor: Subramaniam et al.

Atty Docket: MONS:038US

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Replacement Sheet



Figure 34

Title: Nucleic Acid Sequences to Proteins Involved in Tocopherol Synthesis

Inventor: Subramaniam et al.

Atty Docket: MONS:038US

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Replacement Sheet



slr1737_SYNSP_S74814_ slr1737_ARATH_T04448_ CFI_ARATH_P41088_	MEIRSLIVSMNPNLSSFELSRPVSPLTRSLVPFRSTKLVPRSISRVSASI
slr1737_SYNSP_S74814_ slr1737_ARATH_T04448_ CFI_ARATH_P41088_	KFPPHSGYHWQGQS-PFFEGWYVRLL STPNSETDKISVKPVYVPTSPNRELRTPHSGYHFDGTPRKFFEGWYFRVS
slr1737_SYNSP_S74814_	LPQSGESFAFMYSIENPASDHHYGGGAVQILGPATKKQENQEDQLV
slr1737_ARATH_T04448_	IPEKRESFCFMYSVENPAFRQSLSPLEVALYGPRFTGVGAQILGANDKYL
CFI_ARATH_P41088_	MSSSNACASPSPFPAVTKLHVDSV-
slr1737_SYNSP_S74814_	WRTFPSVKKFWASPRQFALG-HWGKCRDNRQ-AKPLLSEEFFATVKEGYQ
slr1737_ARATH_T04448_	CQYEQDSHNFWGDRHELVLGNTFSAVPGAKAPNKEVPPEEFNRRVSEGFQ
CFI_ARATH_P41088_	TFVPSVKSPASSNPLFLG-GAGVRGLDIQ-GKFVIFTVIGVY
slr1737_SYNSP_S74814_	IHQNQHQGQIIHGDRHCRWQFTVEPEVTWGSPNRFPRATAGW
slr1737_ARATH_T04448_	ATPFWHQGHICDDGRTDYAETVKSARWEYSTRPVYGWGDVGAKQKSTAGW
CFI_ARATH_P41088_	LEGNAVPSLSVKWKGKTTEELTESIPFFREIVTGAF
slr1737_SYNSP_S74814_	LSFLPLFDPGWQILLAQGRAHGWLKWQREQYEFDHALVYAEKNWGHSFPS
slr1737_ARATH_T04448_	PAAFPVFEPHWQICMAGGLSTGWIEWGGERFEFRDAPSYSEKNWGGGFPR
CFI_ARATH_P41088_	EKFIKVTMKLPLTGQQYSEKVTENC
slr1737_SYNSP_S74814_	RWFWLQANYFPDHPG-LSVTAAGGERIVLGRPEEVALIGLHHQGNFY
slr1737_ARATH_T04448_	KWFWVQCNVFEGATGEVALTAGGGLRQLPGLTETYENAALVCVHYDGKMY
CFI_ARATH_P41088_	VAIWKQLGLYTDCEA-KAVEKFLEIFKEET
slr1737_SYNSP_S74814_	EFGPGHGTVTWQVAPWGRWQLKASNDRYWVKLSGKTDKKGSLVHTP-TAQ
slr1737_ARATH_T04448_	EFVPWNGVVRWEMSPWGYWYITAENENHVVELEARTNEAGTPLRAPTTEV
CFI_ARATH_P41088_	-FPPG-SSILFALSPTGSLTVAFSKDDS-IPETGIAVIENKLLAEA-VLE
slr1737_SYNSP_S74814_ slr1737_ARATH_T04448_ CFI_ARATH_P41088_	GLQLNCRDTTRGYLYLQLGSVGHGLIVQGETDTAGLEVGGGLATACRDSCYGELKLQIWERLYDGSKGKVILETKSSMAAVEIGGGPWFG-SIIGKNGVSPGTRLSVAERLSQLMMKNKDEKEVSDHSL
slr1737_SYNSP_S74814_	DWGLTEENLSKKTVPF
slr1737_ARATH_T04448_	TWKGDTSNTPELLKQALQVPLDLESALGLVPFFKPPGL
CFI_ARATH_P41088_	EEKLAKEN